BRUHAT BENGALURU MAHANAGARA PALIKE

Executive Engineer Yelahanka Division

Name of Project: Consultancy Services for Preparation of DPR for the work of Improvements to roads, drains and other developmental works in Maruthinagara ward no- 01 under SWM head in Chief Minister Nava Nagarothan grants of Yelahanka division.(Package-05)

a) Improvements to roads at Maruthinagara 1st main and cross roads in kempegowda ward no -01 of yelahanka Sub division.
b) Improvements road at Maruthinagara 2nd main and cross roads in kempegowda ward no -01 of yelahanka sub division.
c) Improvements to roads at Maruthinagara 3rd main and cross roads in kempegowda ward no -01 of yelahanka sub division.
d) Improvements to roads and drains at Vinivink Shastry layout in kempegowda ward no-01 of yelahanka sub division.
e) Drilling of borewell and providing pipe line in kempegowda ward no -01 of yelahanka Sub division.
f) Improvements to balance road and drian at KHB colony and surrounding areas in kempegowda ward no -01 of yelahanka Sub division.

Bill of Quantities

Sl. No	Description	Unit	Total Qty.	Total Rate		Amount
				In figures	In words	
1	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 Page No.143. Item No.19.14	cum	2852.71	125.59	One Hundred Twenty Five Rupees And Fifty Nine Paisa Only	358271.8489
2	KSRB 2-2.1 : Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. No. KBS 2.1 (a) I 2.3.5 page no.6	cum	5877.75	399.07	Three Hundred Ninety Nine Rupees And Seven Paisa Only	2345633.693
3	KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per sepecification .MORTH Specification NO.301KBS Page No.144 Item No.19.2	cum	496.25	36.04	Thirty Six Rupees And Four Paisa Only	17884.85
4	KSRB 4-1.7 : **Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum** and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 Page No.13 Item No.4.7	cum	926.35	5627.54	Five Thousand Six Hundred Twenty Seven Rupees And Fifty Four Paisa Only	5213071.679

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5	Providing and laying plain/reinforced **cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs**. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specifications. Page No.270. Item No.37.59.1	cum	2082.94	7273.72	Seven Thousand Two Hundred Seventy Three Rupees And Seventy Two Paisa Only	15150722.34
6	KSRRB M 2200-6 **Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting,** bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. MORTH Specification No 1600 & 2200 TMT Bars Fe 500 Page No 229 Item No 28.8.2 SR 2018-19	Tn	128.45	72326.98	Seventy Two Thousand Three Hundred Twenty Six Rupees And Ninety Eight Paisa Only	9290400.581
7	**Removing & Refixing of stone slabs of drains and pointing in C.M (1:3) page no-27. I. no-5.33**	Sqm	2002.50	111.30	One Hundred Eleven Rupees And Thirty Paisa Only	222878.25
8	**Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and** Finishing cutting , including form work, cost of alll materials, labour,hire charges of chinery,loading ,unloading ,lead and lift, transportation etc ,copmplete. (Data Rate)	Sqm	5374.80	2337.00	Two Thousand Three Hundred Thirty Seven Rupees And Zero Paisa Only	12560907.6
9	***Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4*** and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	Sqm	240.00	5418.00	Five Thousand Four Hundred Eighteen Rupees And Zero Paisa Only	1300320

10	**Removing and resetting of kerb stones Page No.270. Item No.37.57**	Nos	4420.88	104.94	One Hundred Four Rupees And Ninety Four Paisa Only	463927.1472
11	**Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. Page No.27. Item No.5.30**	Nos	14581.32	432.48	Four Hundred Thirty Two Rupees And Forty Eight Paisa Only	6306129.274
12	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Page No.180. Item No.24.1	sqm	3847.95	84.80	Eighty Four Rupees And Eighty Paisa Only	326306.16
13	**KSRRB M600-1. Construction of dry lean cement concrete mix CC 1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse** aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1 Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 of MORTH V Revision and IS 456 Table-5 22.1.1 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor Page No.174. Item No.22.1.1	Cum	1054.43	3800.10	Three Thousand Eight Hundred Rupees And Ten Paisa Only	4006939.443

14	**Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,** Coarse and fine aggregate conforming to 18:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. Page No.176. Item No.22.6.1	Cum	1028.04	5210.96	Five Thousand Two Hundred Ten Rupees And Ninety Six Paisa Only	5357075.318
15	**Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing** coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method byrotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. Page No.153. Item No.20.6	cum	1008.68	1855.00	One Thousand Eight Hundred Fifty Five Rupees And Zero Paisa Only	1871101.4
16	KSRRB M400-17. **Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406. Page No. 155. Item No.20.18	cum	749.03	2001.28	Two Thousand One Rupees And Twenty Eight Paisa Only	1499018.758
17	**KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion** on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)	sqm	4993.51	33.92	Thirty Three Rupees And Ninety Two Paisa Only	169379.8592

18	KSRRB 500-2. **Cleaning the existing black topped surface with brooms, soft brushes and finally** dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 Page No.158. Item No.21.2	Sqm	17870.00	5.30	Five Rupees And Thirty Paisa Only	94711
19	KSRRB **M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading,** premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen. Page No.160. Item No.21.17.2	Cum	397.06	7620.34	Seven Thousand Six Hundred Twenty Rupees And Thirty Four Paisa Only	3025732.2
20	KSRRB 500-7. **Providing and applying tack coat using 80/100 grade bitumen (VG10) on the** prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No.158. Item No.21.7	Sqm	22256.00	12.72	Twelve Rupees And Seventy Two Paisa Only	283096.32
21	Providing **and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with** bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP- 53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) Page No. 171. Item No.21.78.12	Cum	890.24	8699.42	Eight Thousand Six Hundred Ninety Nine Rupees And Forty Two Paisa Only	7744571.661

22	**Providing and fixing of retro - reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of high intensity grade sheeting vide Clause** 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 em x 45 cm x 60 em, 60 cm below ground level as per approved drawing Page No.180. Item No.24.2	Nos	2030.50	137.80	One Hundred Thirty Seven Rupees And Eighty Paisa Only	279802.9
23	**KSRRB M800- 5.2 Over Head Sign Board: Supply and installation** of retro- reflection Over-Head Gantry sign boards made out of cube corner IRC:67:2012 specification and fixed over 4mm thick aluminium composite panel sheet having minimum 0.3mm thick aluminium skin on both sides excluding the cost of back support frame, vertical support and horizontal support and foundation. as directed by the engineer incharge of the work Page No.181. Item No.24.6	sqm	11.10	10096.50	Ten Thousand Ninety Six Rupees And Fifty Paisa Only	112071.15
24	**KSRRB M800-4. Direction and Place Identification Signs / Project information Board with size more than 0.9 sqm Size Board:-Providing** and erecting direction and place identification retro- reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm , 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 em, 60 em below ground level as per approved drawing. Page No.180. Item No.24.4		12.00	7567.34	Seven Thousand Five Hundred Sixty Seven Rupees And Thirty Four Paisa Only	90808.08
25	**KSRRB M800-13. Road Marking with Hot Applied 'Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:-** Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 Page No.182. Item No.24.15	Sqm	1401.93	454.74	Four Hundred Fifty Four Rupees And Seventy Four Paisa Only	637513.6482
26	for Rain water harvesting work including 40mm jelly, 20mm jelly coarse sand, fine sand, 12.50 mm chips as per data rates	Nos	14.00	20882.00	Twenty Thousand Eight Hundred Eighty Two Rupees And Zero Paisa Only	292348

27	KSRRB M300-55. Construction of sub-grade and earthen shoulders with approved material Grave/Murrum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cos of earth, watering charges & compaction by vibratory roller to 97% of modified proctors density) MORTH Specification No. 305 Page No 147 Item no 19.62 SR 2018-19	cum	711.00	369.94	Three Hundred Sixty Nine Rupees And Ninety Four Paisa Only	263027.34
28	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc (P.NO-47, I.NO-9.4, PRED 12-13 SR)	Each	5.00	2065.00	Two Thousand Sixty Five Rupees And Zero Paisa Only	10325
29	**Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m.** fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) (P.NO-47, I.NO-9.1, PRED 12-13 SR)		0.00			0
30	0.00 to 50.00 Mtr.	Mtr	250.00	315.80	Three Hundred Fifteen Rupees And Eighty Paisa Only	78950
31	50.00 to 100.00 Mtr.	Mtr	250.00	412.60	Four Hundred Twelve Rupees And Sixty Paisa Only	103150
32	100.00 to 150.00 Mtr.	Mtr	250.00	458.35	Four Hundred Fifty Eight Rupees And Thirty Five Paisa Only	114587.5

33	150.00 to 200.00 Mtr.	Mtr	250.00	484.10	Four Hundred Eighty Four Rupees And Ten Paisa Only	121025
34	200.00 to 250.00 Mtr.	Mtr	250.00	560.32	Five Hundred Sixty Rupees And Thirty Two Paisa Only	140080
35	250.00 to 300.00 Mtr.	Mtr	250.00	600.49	Six Hundred Rupees And Forty Nine Paisa Only	150122.5
36	300.00 to 350.00 Mtr.	Mtr	250.00	622.00	Six Hundred Twenty Two Rupees And Zero Paisa Only	155500
37	**Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black** electric resistance continous welded midle steel tube material confirming to IS 1387/1993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes) (P.NO-III, I.NO-84, PRED 12-13 SR)	Rmt	250.00	1325.00	One Thousand Three Hundred Twenty Five Rupees And Zero Paisa Only	331250
38	Providing and fixing 250mm dia PVC pipe and as per specification and directions. (BWSSB SR 13-14, P.No.53 I.no.1 of sl.no.11)	Rmt	30.00	1100.00	One Thousand One Hundred Rupees And Zero Paisa Only	33000
39	175 mm dia M.S. Casing cap (P.NO-III, I.NO-85, PRED 12-13 SR)6	Each	5.00	100.00	One Hundred Rupees And Zero Paisa Only	500
40	supply of 175mm M.S collars each (P.NO-III, I.NO-86, PRED 12-13 SR)	Each	35.00	150.00	One Hundred Fifty Rupees And Zero Paisa Only	5250
41	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz 380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 15HP/11KW 25 stage (P.NO-XLII, I.NO-41, PWD SR-2018-19)	Nos	5.00	63986.90	Sixty Three Thousand Nine Hundred Eighty Six Rupees And Ninety Paisa Only	319934.5

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42	**Providing, laying & jointing GI pipes confirming to IS specification of approved make with fittings** such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings) 50mm dia GI pipe **(PWD SR-2018-19, P.No.92 I.no. 13.6)**	Rmtr	1500.00	542.72	Five Hundred Forty Two Rupees And Seventy Two Paisa Only	814080
43	**supply of 50mm M.S collars**	Each	250.00	212.00	Two Hundred Twelve Rupees And Zero Paisa Only	53000
44	**Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured** with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS: 8130 1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts 4 sqmm of 56 strands 0.3mm dia (P NO-535, I NO-30 (c), Group A BWSSB 13-14 SR)	Rmt	2700.00	164.29	One Hundred Sixty Four Rupees And Twenty Nine Paisa Only	443583
45	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key nbs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc, completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR)	Nos	5.00	14800.00	Fourteen Thousand Eight Hundred Rupees And Zero Paisa Only	74000
46	**Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting,** fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm (P.NO-530, I NO-39 b, BWSSB SR 13-14)	Sqm Cm	110000.00	0.34	Zero Rupees And Thirty Four Paisa Only	37400
47	Providing & Fixing of clamps set and borewell cap to the pump (MR)	No's	5.00	1800.00	One Thousand Eight Hundred Rupees And Zero Paisa Only	9000

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48	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel Valve. (PWD SR-2018-19, P.NO.XXV, Sl.no, 647)	No's	5.00	1016.95	One Thousand Sixteen Rupees And Ninety Five Paisa Only	5084.75
49	Supplying and delivery of brand new best make Gate Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark . 50mm Gate Valve for distributer pipeline. 50mm dia (PWD SR-2018-19, P.NO.XXVI, Sl.no, 661)	No's	10.00	1482.21	One Thousand Four Hundred Eighty Two Rupees And Twenty One Paisa Only	14822.1
50	Providing and fixing of 50mm GI Shortbend to motor (PWD SR-2018-19, P.NO.XXXIX, G.I. Pipe Fittings - ISI Standards Table)	No's	9.00	232.14	Two Hundred Thirty Two Rupees And Fourteen Paisa Only	2089.26
51	Providing and fixing of 50mm GI union to the motor (PWD SR-2018-19, P.NO.XXXIX, G.I. Pipe Fittings - ISI Standards Table)	No's	9.00	237.12	Two Hundred Thirty Seven Rupees And Twelve Paisa Only	2134.08
52	suppling & fixing of 50mm GI Elbow PWD SR 18-19 XXXIX	No's	5.00	111.80	One Hundred Eleven Rupees And Eighty Paisa Only	559
53	Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) (P.No - 564, I.No - 3, BWSSB SR 13-14)	Per length	250.00	90.64	Ninety Rupees And Sixty Four Paisa Only	22660
54	Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc,. Complete for basement out door type. (MR)	No's	5.00	475.00	Four Hundred Seventy Five Rupees And Zero Paisa Only	2375
55	Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14)	No's	5.00	906.40	Nine Hundred Six Rupees And Forty Paisa Only	4532
56	Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554) (P.NO - 553, I.NO - 10 (d), BWSSB SR 13-14)	Mtr	175.00	169.95	One Hundred Sixty Nine Rupees And Ninety Five Paisa Only	29741.25
57	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces (P.NO - 554, I.NO - 12 (b), BWSSB SR 13-14)	Mtr	175.00	56.65	Fifty Six Rupees And Sixty Five Paisa Only	9913.75

58	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO - 555, I.NO - 15 (b), BWSSB SR 13-14)	Mtr	15.00	249.26	Two Hundred Forty Nine Rupees And Twenty Six Paisa Only	3738.9
59	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc, is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia (P.NO - 552, I.NO - 7 , BWSSB SR 13-14)	No's	5.00	1699.50	One Thousand Six Hundred Ninety Nine Rupees And Fifty Paisa Only	8497.5
60	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc, (P.NO - 555, I.NO - 16 (b) , BWSSB SR 13-14)	No's	5.00	271.92	Two Hundred Seventy One Rupees And Ninety Two Paisa Only	1359.6
61	Supplying shunt capacitor's confirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No's. (MR)	No's	5.00	1350.00	One Thousand Three Hundred Fifty Rupees And Zero Paisa Only	6750
62	Providing and fixing Gun Metal Gate wheel valve confirming to IS specification of approved make as per direction including all lead and lift etc, Complete. 50mm dia (P.NO - 94, I.NO - 13.79.6, PWD SR-2018-19)	No's	5.00	778.04	Seven Hundred Seventy Eight Rupees And Four Paisa Only	3890.2
63	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches (P.NO - 521, I.NO - 2 (f), BWSSB SR 13-14)	No's	5.00	311.58	Three Hundred Eleven Rupees And Fifty Eight Paisa Only	1557.9
64	Erection of pumping machineries PRE SR 12-13 pg 51/10.3.20	No	5.00	900.00	Nine Hundred Rupees And Zero Paisa Only	4500
65	Bescom Deposit charges	L/S	5.00	13300.00	Thirteen Thousand Three Hundred Rupees And Zero Paisa Only	66500
66	Borewell registration charges per Rs 1000 each for BWSSB	Nos	5.00	1000.00	One Thousand Rupees And Zero Paisa Only	5000

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67	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinery soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5(Page No.5 , Item No.2.4,PW,P & IWTD SR 2018-19)	cum	459.00	316.94	Three Hundred Sixteen Rupees And Ninety Four Paisa Only	145475.46
68	KSRRB 13-9: Providing and fixing to wall ceiling and floor high density polyethylene pipes 6.00Kgf/sqm.cm working pressure of outside diameter raising mains & exposed distribution pipes with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of materials, labour charges, HOM and testing complete as per Specifications. Specification No. KBS 13.2.15.2/13.9, KSRB 13-9.4 : -do-63mm dia (Page no.94, Item No.13.73.2)	Rmt	840.00	394.32	Three Hundred Ninety Four Rupees And Thirty Two Paisa Only	331228.8
69	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406	cum	75.60	2001.28	Two Thousand One Rupees And Twenty Eight Paisa Only	151296.768
70	Filling available earth around pipe lines cable in layers not exceeding 20cms, in depth compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost all labour complete as per specifications (Page No.6 Item No. 2.10)PW,P&IWTD SR 2018-19	Cum	459.00	213.06	Two Hundred Thirteen Rupees And Six Paisa Only	97794.54

Technical Sanction
Accorded For Rs 10.00.00
Head of A/C Annex III-5
CER NO : 218 Dt: 08.11.2019

Sub total	83199888.86
12 % GST	9983986.663
DPR and PMC 2%	1663997.78
tender premum 6 %	4991993.33
Miscellaneous & Rounding off	160133.37
Total Amount	100000000.00

TA CE (YNK)

Assistant Engineer
Yelahanka Sub Division
BBMP

Assistant ExecutiveEngineer
Yelahanka Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

AARTH ASSOCIATES BANGALORE